ABSTRACT

EMBEDDED PRE-PROCESSOR WITH DYNAMIC MACRO TYPES

5   An embedded pre-processor having dynamic macro types is disclosed. After a lexer receives an identifier token from source code, the lexer compares the identifier token with the macro names stored in the symbol table. If the identifier token matches a macro name stored in the symbol table, the lexer replaces the identifier token with a macro form token. The lexer then sends the macro form token to a glue routine. The glue routine

10 invokes a macro invocation parser. The lexer continues to transfer tokens to the macro invocation parser via the glue routine until the completion of the macro invocation. The macro invocation parser subsequently sends a macro body definition of the macro to the lexer.